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ERNEST ORLANDO LAWRENCE

Correspondence and Papers

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Report and Key to Arrangement

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Ernest Orlando Lawrence, Nobel prizewinning physicist, inventor of the cyclotron and the founder and first director of the University of California Radiation Laboratory, was born on \_\_\_\_\_ in \_\_\_\_\_ . His parents \_\_\_\_\_ and \_\_\_\_\_ Lawrence were the children of Norwegian immigrants. Ernest Lawrence attended St. Olaf College and later the University of South Dakota, where he received his A.B. degree in 1922. He had originally thought to become a medical doctor but was influenced to switch to a career in physics while attending the University.

Following graduate work at the University of Minnesota and the University of Chicago, Lawrence accompanied his research advisor, Professor W. F. G. Swann, to Yale University, where he received his Ph.D. degree in 1925. Lawrence continued research in photoelectricity at Yale as a National Research Fellow and an Assistant Professor. He gained an important reputation in this field through his measurements of the ionization potential of the mercury atom and the time lapse between radiation striking a metal surface and the first appearance of electrons (with Jesse W. Beams). Several universities sought Lawrence for their faculties. He accepted an offer to join the University of California faculty in 1928, and two years later he was the youngest full professor on the Berkeley faculty.

He was soon caught up in the quest for a way to accelerate particles to high energies and thus expand the research into the atomic nucleus begun by Ernest Rutherford's bombardment of light

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elements using the alpha particles from radium. In September, 1930, he made the first public announcement of the new method at the meeting of the National Academy of Sciences held in Berkeley and demonstrated a tiny model cyclotron. From the days of that first model, Lawrence followed a pattern of building bigger and more sophisticated machines. In 1939, he received the Nobel Prize for his remarkable invention.

The first cyclotrons of any size were the 11" (1930) and the 27" (1934), later expanded to 37" (1937). They were used to confirm the existence of artificially induced radioactivity, the disintegration of light ions, and to produce large amounts of neutrons for the study of radio isotopes. Next came the 60" medical cyclotron (1939) which was used in the work of Lawrence's brother, Dr. John H. Lawrence, on the effects of neutron therapy on cancer and the production of radio-isotopes for medical use. Then followed the 184", which in its final form in 1946 included the synchrotron design of Edwin McMillan, and, in 1954, the Bevatron, based on a design of William Brobeck.

Along with these advances in cyclotron technology came a phenomenal growth in what was called the Radiation Laboratory. By 1936 it was a combination of some office space in, and an old wooden building behind, LeConte Hall, the Physics building, but soon expanded into many buildings. In 1940, before the tremendous growth during and after World War II, there was a separate medical cyclotron laboratory, called Crocker Radiation Laboratory, construction of the Donner Biophysics Laboratory had begun, and money had been obtained to construct the 184" cyclotron in a setting off the main campus on Charter Hill.

This growth was possible because Lawrence had proved to have a

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remarkable gift for getting financial support. He had complete faith in the need for his exploring ideas; his enthusiasm was infectious. He used the funds received to produce significant research results and so the cycle repeated.

During World War II Lawrence worked closely first with the National Defense Research Committee on microwave research and submarine detection and then with the Office of Scientific Research and Development's Section S-1, subsequently the Manhattan Engineer District, on the magnetic separation method for isolating  $U^{235}$ . The magnet for the 184" cyclotron was converted into a giant mass spectrograph, Calutron, for research into the separation technique. Not only did Lawrence head the activities at the Berkeley laboratory, but, he also attended many Washington meetings and gave advice concerning the development of the atomic bomb and suggestions for its use. In addition, Radiation Laboratory scientists worked on the development of prototype racetrack separators for the magnetic separation plant section of the Y-12 facility at Oak Ridge, Tennessee.

After the war the University of California Radiation Laboratory continued to be financed from Manhattan Engineer District funds. The Laboratory was even given support for projects outside of the District's specific province. With the establishment of the Atomic Energy Commission, the support of the Laboratory was taken over by the Commission and increased. In 1952, at the AEC's request, Lawrence established a new laboratory at Livermore to do weapons and other applied research.

By this time, Lawrence seldom took part in the actual experiments carried on at the laboratories. However, he still took time out

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from busy administrative duties to visit various parts of the complex Laboratory, to talk with colleagues about their work and offer his help. Like many other scientists after the war who became national figures, Lawrence was called upon by the federal government to give his opinion on problems in weapons development and the dangers of radioactive fallout.

An old interest in television inspired him to work on a color television tube in the early 1950's. This grid style picture tube, the Lawrence tube or Chromatron, was used in the portable color television sets of a Japanese company in the late 1960's.

Although he had been diagnosed early in 1952 as having chronic ulceritis and told to rest and relax more, Lawrence could not stay his fast pace for long. At President Eisenhower's request, and with only the hesitant approval of his doctor, Lawrence attended the 1958 Geneva conference on the suspension of nuclear testing. There he became acutely ill and had to return early to the United States. He died shortly afterward, on \_\_\_\_\_, leaving behind

\_\_\_\_\_, his wife of 26 years, and their six children.

The Lawrence papers were transferred from the Lawrence Berkeley Laboratory, formerly the Radiation Laboratory, to The Bancroft Library in 1972 and 1973. Additional papers were donated by Mrs. Lawrence in 1974. The collection includes the personal papers of Ernest O. Lawrence, administrative papers for the University of California Radiation Laboratory, the Joseph G. Hamilton papers dealing with the 60" cyclotron and the Crocker Radiation Laboratory, and the papers of Lawrence's close associate, Donald Cooksey, covering the years 1920-1965.

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The collection as a whole covers the years 1920-1968 and presents a detailed record of all phases of Lawrence's life and career and the growth, administration and projects of the Radiation Laboratory.

There are letters, memos, telegrams, reports, transcripts of telephone conversations, and such miscellaneous items as invitations, newsclips, notes, expense records, etc. Some photographs of Ernest Lawrence have been removed to the library's photographic collection. All phonograph records and tapes have been removed to the library's Audio-Visual Division.

The papers from the Laboratory were kept in series covering major subjects. Folders in some series were in alphabetical correspondent/subject arrangement and, in others, a chronological arrangement. This basic arrangement has been retained with few exceptions. The Manhattan Engineer District series was completely re-organized, particularly the "declassified miscellaneous", into an alphabetical correspondent/subject arrangement; and all material relating to experimental work was removed from the Equipment series and interfiled into other series. Additional personal papers donated in 1974 by Mrs. Lawrence were interfiled with existing series.

Lawrence's personal and professional papers cover the period 1920-58 and are to be found in all series. For the years before 1945 they are integrated with the papers concerning the Radiation Laboratory and, as such, provide a complete picture of advances in cyclotron technology, the establishment of cyclotrons at other institutions, the research done by Lawrence and others at the Radiation Laboratory both before and during World War II, and the research work at other institutions, as reported by colleagues.

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For the years after 1945 the papers are, for the most part, made up of the official papers of the University of California Radiation Laboratory. They focus mainly on the administration and research work of the Laboratory's "Hill" area with some information on activities at the Livermore and Los Alamos installations. Thus, for instance, there is a little material about the development of the Lawrence tube or Chromatron.

The papers contain only a small amount of information about the University of California's Donner Laboratory and the Radiation Laboratory-related activities of the University of California, San Francisco. However, a detailed account of the administration and medical research of the Crocker Radiation Laboratory of the University of California from 1939 to 1962 is to be found due to the inclusion of the papers of Joseph G. Hamilton, M.D., the Laboratory's director.

Some papers have been restricted. These include personal letters from John H. Lawrence, Alfred L. Loomis, Frank F. Oppenheimer, Ruby Patterson, and Edwin W. Pauley to Ernest Lawrence. These are available for use only with the written permission of the correspondent. Also, the financial records of contributions of various donors to the University of California Radiation Laboratory and the records of the Lawrence Special Fund are available for use only with the written consent of both the Directors of the Lawrence Berkeley Laboratory and The Bancroft Library.

The material is housed in forty-eight cartons and two boxes, with some material in oversize files.

A detailed listing of the cartons follows in the Key to Arrangement, with a partial list of major correspondents appended.

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Key to Arrangement

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## GENERAL FILES

This series consists primarily of professional correspondence, memoranda and telegrams of Ernest O. Lawrence, Joseph G. Hamilton, Donald Cooksey and Robert L. Thornton; and letters written by various members of the Lawrence family. The remainder of the correspondence is to and from other members of the Radiation Laboratory. Subject matter covered by the correspondence includes experiments at the Radiation Laboratory and at other facilities (both university and corporate) around the world, design of the machinery, professional meetings, funding, government involvement in science, University of California affairs, and social functions.

Also included in the files are transcripts of telephone conversations, articles, newspaper clippings, speeches, a few personal health reports, biographies, transcripts of radio and television broadcasts, receipts, notices and newsletters and photographs.

The series is arranged as follows:

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- Folder 28 National Academy of Sciences; National Science Fund
- Folder 29 National Advisory Cancer Council 1937-38
- Folder 29A National Advisory Cancer Council 1939-43
- Folder 30 National Broadcasting Company 1941
- Folder 31 National Broadcasting Company 1957
- Folder 32 National Bureau of Standards
- Folder 33 National Cancer Institute
- Folder 34 National Carbon Company
- Folder 35 National Industrial Conference Board
- Folder 36 National Institute of Social Science
- Folder 37 National Science Foundation
- Folder 38 NATO, North Atlantic Treaty Organization
- Folder 39 Naval Radiological Defense Laboratory, San Francisco
- Folder 40 Navy, U.S. Department of 1946-47
- Folder 41 Navy, U.S. Department of 1948-58
- Folder 42 Newell, Robert R.
- Folder 43 Newson, Henry W.
- Folder 44 Neylan, John F. 1945-50
- Folder 44A Neylan, John F. 1951-60

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## Carton 13 cont.

Folder 45 Nichols, Kenneth D.  
Folder 46 Nixon, Richard M.  
Folder 47 Nobel Foundation  
Folder 48 Normand, Charles E.  
Folder 49 Northrop Aircraft, Inc.  
Folder 50 Nuclear Development Associates  
Folder 51 Nye, Arthur W.

## Carton 14

Folder 1 O to OO Miscellaneous  
Folder 2 OP to OZ Miscellaneous  
Folder 3 Oak Ridge National Laboratory 1945-53  
Folder 4 Oak Ridge National Laboratory 1954-58  
Folder 5 Ohio State University  
Folder 6 Oliphant, Marcus L. 1934-47  
Folder 7 Oliphant, Marcus L. 1948-66  
Folder 8 Oliphant Group  
Folder 9 Oppenheimer, J. Robert  
Folder 10 Oregon State College  
Folder 11 Overseth, Oliver E.  
Folder 12 PA Miscellaneous  
Folder 13 PB to PE Miscellaneous  
Folder 14 PF to PL Miscellaneous  
Folder 15 PM to PZ Miscellaneous  
Folder 16 Paramount Pictures, Inc.  
Folder 17 Pauling, Linus C.  
Folder 18 Paxton, Hugh C.

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## Carton 14 cont.

- Folder 19 Pecher, Charles 1940-June 1941
- Folder 20 Pecher, Charles July 1941-47
- Folder 21 Pecher, Charles; Patents
- Folder 22 Pennsylvania, University of
- Folder 23 Penrose, Spencer
- Folder 24 Perrin, Francis H. J. S.
- Folder 25 Perrin, Jean B.
- Folder 26 Peters, Bernard
- Folder 27 Photograph Requests 1935-41
- Folder 27A Photograph Requests 1942-59
- Folder 28 Plastics
- Folder 29 Poillon, Howard A.
- Folder 30 Pollard, Ernest C.
- Folder 31 Prentis, Henning W.
- Folder 32 Preston, William
- Folder 33 Priestley, Kenneth; Radiation Laboratory
- Folder 34 Priestley, Kenneth; University of California
- Folder 35 Princeton University
- Folder 36 Prints; Equipment and Buildings
- Folder 37 Q Miscellaneous
- Folder 38 Queen's University, Ontario, Canada
- Folder 39 Questar Telescope

## Carton 15

- Folder 1 RA Miscellaneous
- Folder 2 RE to RI Miscellaneous
- Folder 3 RO Miscellaneous

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## Carton 15 cont.

Folder 3A RU to RZ Miscellaneous  
Folder 4 Rabi, Isidor I.  
Folder 5 Radio Corporation of America  
Folder 6 Radiological Research Institute  
Folder 7 Radiological Society  
Folder 8 Randleigh Farm  
Folder 9 Reed College  
Folder 10 Regenstreif, Edouard  
Folder 11 Reichel, Wladimir A.  
Folder 12 Reprint Correspondence 1931-37  
Folder 13 Reprint Correspondence 1938-40  
Folder 14 Reprint Correspondence 1941-43  
Folder 15 Reprint Correspondence 1944-48  
Folder 16 Research Corporation 1931-32  
Folder 16A Research Corporation 1933-34  
Folder 17 Research Corporation 1935-36  
Folder 17A Research Corporation 1937-38  
Folder 18 Research Corporation 1939-40  
Folder 19 Research Corporation 1941-49  
Folder 20 Research Corporation 1950-58  
Folder 21 Reynolds, Wallace B.  
Folder 22 Richardson, J. Reginald  
Folder 23 Richman, Chain  
Folder 24 Rickover, Hyman G.  
Folder 25 Robinson, William S.  
Folder 26 Rochester, University of 1935-38

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## Carton 15 cont.

- Folder 26A Rochester, University of 1939
- Folder 27 Rochester, University of 1940-59
- Folder 28 Rockefeller, Laurance S.
- Folder 29 Rockefeller Foundation 1934-39
- Folder 30 Rockefeller Foundation 1940
- Folder 31 Rockefeller Foundation 1941-56
- Folder 32 Rockefeller Institute of Medical Research
- Folder 33 Ruben, Samuel
- Folder 34 Rutherford, Sir Ernest
- Folder 35 S to SB Miscellaneous
- Folder 36 SC to SD Miscellaneous
- Folder 37 SE to SH Miscellaneous

## Carton 16

- Folder 1 SI to SL Miscellaneous
- Folder 2 SM to SO Miscellaneous
- Folder 3 SP to STA Miscellaneous
- Folder 4 STE to STR Miscellaneous
- Folder 4A STU to SZ Miscellaneous
- Folder 5 Saha, Meghnad
- Folder 6 Salisbury, Winfield W.
- Folder 7 Sandoz Chemical Works
- Folder 8 Saudi Arabia
- Folder 9 Schiff, Leonard I
- Folder 10 Science Museum, London
- Folder 11 Scientists of Tomorrow
- Folder 12 Seaborg, Glenn T.

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## Carton 16 cont.

Folder 13 Seaborg, Glenn T.; Articles  
Folder 14 Segre, Emilio  
Folder 15 Selective Service  
Folder 16 Serber, Robert  
Folder 17 Shankland, Robert S.  
Folder 18 Shapley, Harlow  
Folder 19 Sheard, Charles  
Folder 20 Sheridan, James C.  
Folder 21 Siegbahn, Kai  
Folder 22 Siegbahn, Manne K. G.  
Folder 23 Sigma Xi  
Folder 24 Simmons, Samuel J.  
Folder 25 Simon, Franz E.  
Folder 26 Simpson, Kenneth M.  
Folder 27 Sloan, David H.  
Folder 28 Sloan X-Ray Tubes  
Folder 29 Sloan-Marshall "Resnatron"  
Folder 30 Smith, Lloyd P.  
Folder 31 Smithsonian Institution  
Folder 32 Smyth, Henry D.  
Folder 33 Snell, Arthur H.  
Folder 34 Soiland, Albert  
Folder 35 Solvay Conference, Brussels  
Folder 36 Soundscriber  
Folder 37 South Carolina, University of  
Folder 38 South Dakota; Various Friends

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## Carton 16 cont.

- Folder 39 South Dakota, University of
- Folder 40 Southern California, University of
- Folder 41 Spear, F. Gordon
- Folder 42 Sproul, Robert G.
- Folder 43 Standard Oil Company
- Folder 44 Stanford Research Institute
- Folder 45 Stanford University
- Folder 46 Stassen, Harold E.
- Folder 47 State, U.S. Department of
- Folder 48 Stauffer, Lynn E.
- Folder 49 Stern, Otto
- Folder 50 Stone, J. McWilliams.
- Folder 51 Stone and Webster Engineering Corporation
- Folder 52 Strauss, Lewis L.

## Carton 17

- Folder 1 Supek, Ivan
- Folder 2 Svedberg, The
- Folder 3 Swann, William F. G.
- Folder 3A Synchrotron
- Folder 4 T to TH Miscellaneous
- Folder 5 TI to TQ Miscellaneous
- Folder 6 TR to TZ Miscellaneous
- Folder 7 Tables
- Folder 8 Tata Institute, Bombay, India
- Folder 9 Teller, Edward
- Folder 10 Tennessee Eastman Corporation

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## Carton 17 cont.

- Folder 11 Tennessee Valley Authority
- Folder 12 Texas, University of
- Folder 13 Thomas, Charles A.
- Folder 14 Thornton, Robert L. 1933-48
- Folder 15 Thornton, Robert L. 1949-55
- Folder 16 Thornton, Robert L. 1956-63
- Folder 17 Thornton, Robert L.; American Physical Society
- Folder 18 Thornton, Robert L.; Atomic Energy Commission
- Folder 19 Thornton, Robert L.; Electron Linac
- Folder 20 Thornton, Robert L; Le Conteur, K. J. (prints of beam extractor for synchrocyclotron in Oversize)
- Folder 21 Thornton, Robert L; Los Alamos Scientific Laboratory
- Folder 22 Thornton, Robert L.; Miscellaneous Meetings
- Folder 23 Thornton, Robert L.; Oak Ridge National Laboratory 1947-56
- Folder 24 Thornton, Robert L.; Oak Ridge National Laboratory 1957-63
- Folder 25 Thornton, Robert L.; Pickavance, Thomas S.
- Folder 26 Tibbets, D. Reginald
- Folder 27 Tichvinsky, Leonid M.
- Folder 28 Tjaden, J. C.
- Folder 29 Tjaden, Lowell E.
- Folder 30 Tobias, Cornelius A.
- Folder 31 Tomarkin, L. W.
- Folder 32 Toronto, University of
- Folder 33 Turner, Clarence H.
- Folder 34 Tuve, Marie A.

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## Carton 17 cont.

- Folder 35 Twitchell, William C.
- Folder 36 Tyren, Helge
- Folder 37 U Miscellaneous
- Folder 38 Union of Soviet Socialist Republics 1934-49
- Folder 39 Union of Soviet Socialist Republics 1950-58
- Folder 40 Urey, Harold C.
- Folder 41 V Miscellaneous
- Folder 42 Van de Graaff, Robert J.
- Folder 43 Van Voorhis, Stanley N.
- Folder 44 Varney, Robert N.
- Folder 45 Victoria University, New Zealand
- Folder 46 Volkoff, George M.
- Folder 47 Von Friesen, Sten
- Folder 48 Von Laue, Max
- Folder 49 Von Neumann, John

## Carton 18

- Folder 1 WA Miscellaneous
- Folder 2 WE Miscellaneous
- Folder 3 WH Miscellaneous
- Folder 4 WI Miscellaneous
- Folder 5 WO to WZ Miscellaneous
- Folder 6 Walcott, Fred G.
- Folder 7 Walke, Harold
- Folder 8 Walker, Laurence R.
- Folder 9 Warren, Shields
- Folder 10 Washburn, Harold W.

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## Carton 18 cont.

- Folder 11 Washington, University of
- Folder 12 Washington University
- Folder 13 Wataghin, Gleb
- Folder 14 Weaver, Warren
- Folder 15 Wedemeyer, Albert C.
- Folder 16 Welch Foundation, Robert A.
- Folder 17 Weltner, George
- Folder 18 Weltner, John S.
- Folder 19 Westinghouse Electric Corporation
- Folder 20 White, Harry J.
- Folder 21 White, Harry J.; Publications
- Folder 22 White, Harvey E.
- Folder 23 White, Milton G.
- Folder 24 Wideroe, Rolf
- Folder 25 Wiebe, Werner
- Folder 26 Williams, E. Clifford
- Folder 27 Williams, John H.
- Folder 28 Williams, W. Walter
- Folder 29 Wilson, Robert R.
- Folder 30 Wisconsin, University of
- Folder 31 Wood, Robert W.
- Folder 32 Wooldridge, Dean E.
- Folder 33 Works Progress Administration
- Folder 34 Wouter, Louis F.
- Folder 35 Wright, Byron T.
- Folder 36 Wu, Chien-Shiung

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## Carton 18 cont.

- Folder 37 X to Z Miscellaneous
- Folder 38 Yale University 1933-51
- Folder 39 Yale University 1952-61
- Folder 40 Yale Committee; Division of Science 1947-52
- Folder 41 Yale Committee; Division of Science 1953-56
- Folder 42 York, Herbert F.
- Folder 43 Yosemite Park and Curry Company
- Folder 44 Zeleny, John
- Folder 45 Zimmelman, Marcus
- Folder 46 Zirkle, Raymond E.
- Folder 47 Zworykin, Vladimir K.

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## UNIVERSITY OF CALIFORNIA

This series contains administrative papers covering the various committees, projects, meetings and University-related institutions with which Lawrence was involved both as Professor of Physics and as Director of the University of California Radiation Laboratory.

This series is arranged as follows:

## Carton 19

- Folder 1 Academic Senate
- Folder 2 Accounting Office and Comptroller
- Folder 3 Alumni Association
- Folder 4 Bacteriology Department
- Folder 5 Business and Finance
- Folder 6 Chancellor's Advisory Administrative Council 1953
- Folder 7 Chancellor's Advisory Administrative Council  
January-June 1954
- Folder 8 Chancellor's Advisory Administrative Council  
July-December 1954
- Folder 9 Chancellor's Advisory Administrative Council  
January-May 1955
- Folder 10 Chancellor's Advisory Administrative Council  
June-December 1955
- Folder 11 Chancellor's Advisory Administrative Council  
January-April 1956
- Folder 12 Chancellor's Advisory Administrative Council  
May-December 1956
- Folder 13 Chancellor's Advisory Administrative Council 1957
- Folder 14 Chancellor's Advisory Administrative Council 1958
- Folder 15 Chancellor's Memorandums
- Folder 16 Charter Days

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## Carton 19 cont.

- Folder 17 Chemistry Department
- Folder 18 College Tea Lists
- Folder 19 Commencement 1945
- Folder 20 Committees
- Folder 21 Davis Campus
- Folder 22 Disaster Preparedness Plan
- Folder 23 Durant Hall
- Folder 24 Engineering Department
- Folder 25 Extention Division
- Folder 26 Golden Gate International Exposition
- Folder 27 Graduate Students
- Folder 28 Grounds and Buildings
- Folder 29 Health Insurance
- Folder 30 Institute of Experimental Biology
- Folder 31 Kerr, Clark
- Folder 32 La Jolla Campus
- Folder 33 Library
- Folder 34 Lick Observatory
- Folder 35 Los Angeles Campus
- Folder 36 Los Alamos Scientific Laboratory 1943-50
- Folder 37 Los Alamos Scientific Laboratory 1951-67

## Carton 20

- Folder 1 Loyalty Oath
- Folder 2 Miscellaneous 1933-53

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## Carton 20 cont.

- Folder 3 Miscellaneous 1954-58
- Folder 4 News Service
- Folder 5 Personnel
- Folder 6 Physics Department 1931-50
- Folder 7 Physics Department 1951-58
- Folder 8 Post War Plans
- Folder 9 President's Memorandums
- Folder 10 Purchasing Department
- Folder 11 Regents, Board of
- Folder 12 Request of Appointment Forms
- Folder 13 Research Contracts
- Folder 14 Richmond Field Station
- Folder 15 Safety and Disaster Committee
- Folder 16 San Francisco: Medical School 1933-43
- Folder 17 San Francisco: Medical School 1946-52
- Folder 18 Scripps Institution of Oceanography
- Folder 19 Sproul, Robert G. 1932-54
- Folder 20 Sproul, Robert G. 1955-58

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## UNIVERSITY OF CALIFORNIA RADIATION LABORATORY

This series contains correspondence, reports, and documents covering administration, including budgeting and financing of programs, construction of facilities, safety standards and measures, and the health physics program. Also included are personnel lists, information on salaries, historical reports, requests for information and lists of and passes for visitors. There are, also, a few files relating specifically to the Livermore Radiation Laboratory.

The series is arranged as follows:

## Carton 20 cont.

- Folder 21 Administration 1934-42
- Folder 22 Administration 1943-46
- Folder 23 Administration 1947-49
- Folder 24 Administration 1950
- Folder 25 Administration 1951
- Folder 26 Administration 1952
- Folder 27 Administration 1953
- Folder 28 Administration 1954

## Carton 21

- Folder 1 Administration 1955
- Folder 2 Administration 1956
- Folder 3 Administration 1957-63
- Folder 4 Administration; Electronics
- Folder 5 Administration; Health and Safety 1935-47
- Folder 6 Administration; Health and Safety 1948-58
- Folder 7 Administration; Job Orders

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## Carton 21 cont.

- Folder 8 Administration; Livermore Laboratory
- Folder 9 Administration; Mechanical Drafting
- Folder 10 Administration; Oak Ridge (Site X)
- Folder 11 Administration; Purchasing 1937-41
- Folder 12 Administration; Purchasing 1942
- Folder 13 Administration; Purchasing 1943
- Folder 14 Administration; Purchasing 1944-49
- Folder 15 Administration; Purchasing Orders
- Folder 16 Administration; Purchasing Reports
- Folder 17 Administration; Security 1941-43
- Folder 18 Administration; Security 1944-45
- Folder 19 Administration; Security 1950-59
- Folder 20 Administration; Shops
- Folder 21 Administration; Space
- Folder 22 Administration; Special Materials
- Folder 23 Administration; Supplies and Equipment 1931-39
- Folder 24 Administration; Supplies and Equipment 1940-54

## Carton 22

- Folder 1 Budget and Programs 1932-36
- Folder 2 Budget and Programs 1937-39
- Folder 3 Budget and Programs 1940-41
- Folder 4 Budget and Programs 1942-46
- Folder 5 Budget and Programs 1947
- Folder 6 Budget and Programs 1948
- Folder 7 Budget and Programs 1949-54
- Folder 8 Budget and Programs 1955

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## Carton 22 cont.

- Folder 9 Budget and Programs 1956-57
- Folder 10 Contract W-7405-Eng-48
- Folder 11 Historical Reports 1940
- Folder 12 Historical Reports April 1945
- Folder 13 Historical Reports December 1945
- Folder 14 Historical Reports April 1946
- Folder 15 Historical Reports 1957-59
- Folder 16 Information Requests A-C
- Folder 17 Information Requests D-K
- Folder 18 Information Requests L-N
- Folder 19 Information Requests O-R
- Folder 20 Information Requests S-Z
- Folder 21 Livermore Laboratory 1949-62
- Folder 22 Livermore Laboratory; Hydrogen Bomb
- Folder 23 Livermore Laboratory; Hydrogen Bomb, Articles
- Folder 24 Livermore Laboratory; Test Ban Treaty

## Carton 23

- Folder 1 Livermore Laboratory; Tests 1946-May 1956
- Folder 2 Livermore Laboratory; Tests June 1956-1962
- Folder 3 Livermore Laboratory; Tests, Publicity
- Folder 4 Personnel 1937-42
- Folder 5 Personnel 1943
- Folder 6 Personnel 1944
- Folder 7 Personnel 1945-49
- Folder 8 Personnel 1950-55

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## Carton 23 cont.

Folder 9 Personnel 1956-59

Folder 10 Personnel; Alien Lists

Folder 11 Personnel; Charts (January-September 1945)

Folder 12 Personnel; Ernest Lawrence's Students

Folder 13 Personnel; Lists (1943-55)

Folder 14 Personnel; Lists and Charts

Folder 15 Personnel; Passes (1942-45)

Folder 16 Personnel; Photographs

Folder 17 Personnel; Salaries 1936-42

Folder 18 Personnel; Salaries 1943-45

Folder 19 Personnel; Salaries 1946-48

Folder 20 Personnel; Salaries 1949-51

Folder 21 Personnel; Salaries 1952-53

Folder 22 Personnel; Salaries 1954

Folder 23 Personnel; Salaries 1955

Folder 24 Personnel; Salaries 1956

Folder 25 Personnel; Salaries 1957-58

Folder 26 Personnel; Salaries 1959

Folder 27 Publicity; Booklets, Equipment

Folder 28 Publicity; Booklets, Personnel and Research

Folder 29 Publicity; California Monthly

Folder 30 Publicity; Magazines, Articles

Folder 31 Publicity; Magazines, Letters A-M

Folder 32 Publicity; Magazines, Letters N-Z

Folder 33 Publicity; Newspapers, Articles

Folder 34 Publicity; Newspapers, Letters

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## Carton 23 cont.

- Folder 35 Publicity; The Magnet (issues 7/61 & 10/65)
- Folder 36 Publicity; University Explorer (transcript of programs)

## Carton 24

- Folder 1 Report Receipts; A Reports
- Folder 2 Report Receipts; B Reports
- Folder 3 Report Receipts; P Reports
- Folder 4 Report Receipts; Miscellaneous
- Folder 5 Report Receipts; Other than Lawrence
- Folder 6 Report Receipts; Documents Returned
- Folder 7A Report Receipts; Reports Returned 1947-53
- Folder 7B Report Receipts; Reports Returned 1954
- Folder 8A Report Receipts; Reports Returned 1955
- Folder 8B Report Receipts; Reports Returned 1955 cont.
- Folder 9 Report Receipts; Reports Returned 1956
- Folder 10A Report Receipts; Reports Returned to Sender 1941-47
- Folder 10B Report Receipts; Reports Returned to Sender 1948-56
- Folder 11 Report Receipts; Information Division Inventory
- Folder 12 Report Receipts; Certificates of Destruction
- Folder 13 Research Program Meetings
- Folder 14 Research Reports 1933-46
- Folder 15 Research Reports 1947
- Folder 16 Research Reports 1948-55
- Folder 17 Visitor Lists (1945-53)
- Folder 18 Visitors 1934-46
- Folder 19 Visitors 1947-51

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## Carton 24 cont.

Folder 20 Visitors 1952

Folder 21 Visitors 1953

Folder 22 Visitors 1954-55

Folder 23 Visitors 1956

Folder 24 Visitors 1957-62

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## EQUIPMENT

This series includes correspondence with individuals and organizations, reports, blueprints, charts, etc. concerning maintenance and construction of equipment, requests for use of the various accelerators at the Radiation Laboratories in Berkeley and Livermore, and requests for information about construction and function of various pieces of equipment.

This series is arranged as follows:

## Carton 25

Folder 1	27" & 37" Cyclotron 1931-47
Folder 2	27" & 37" Cyclotron Magnets
Folder 3	60" Cyclotron 1936
Folder 4	60" Cyclotron 1937
Folder 5	60" Cyclotron 1938-39
Folder 6	60" Cyclotron 1940-41
Folder 7	60" Cyclotron 1942-43
Folder 8	60" Cyclotron 1944
Folder 9	60" Cyclotron 1945
Folder 10	60" Cyclotron 1946-47
Folder 11	60" Cyclotron 1948
Folder 12	60" Cyclotron 1949
Folder 13	60" Cyclotron 1950
Folder 14	60" Cyclotron 1951
Folder 15	60" Cyclotron 1952
Folder 16	60" Cyclotron 1953
Folder 17	60" Cyclotron 1954
Folder 18	60" Cyclotron 1955

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## Carton 25 cont.

- Folder 19 60" Cyclotron 1956
- Folder 20 60" Cyclotron 1957
- Folder 21 60" Cyclotron 1958
- Folder 22 60" Cyclotron 1959
- Folder 23 60" Cyclotron 1960-62
- Folder 24 60" Cyclotron; Blueprints (in Oversize)
- Folder 24A 60" Cyclotron; Blueprints (in Oversize)
- Folder 25 60" Cyclotron; Charts
- Folder 25A 60" Cyclotron; Charts-Running Efficiency (in Oversize)
- Folder 26 60" Cyclotron; Operator Cards
- Folder 27 60" Cyclotron; Radio Frequency System
- Folder 28 60" Cyclotron; Time Sheets

## Carton 26

- Folder 1 184" Cyclotron 1938-40
- Folder 2 184" Cyclotron 1941-43
- Folder 3 184" Cyclotron 1944-48
- Folder 4 184" Cyclotron 1949-54
- Folder 5 184" Cyclotron; Inauguration 1946
- Folder 6 184" Cyclotron; Mechanical Shops
- Folder 7 184" Cyclotron; Priority Ratings
- Folder 8 184" Cyclotron; Progress Report
- Folder 9 184" Cyclotron; Time Analysis 1947-50
- Folder 10 184" Cyclotron; Time Analysis 1951-53
- Folder 11 184" Cyclotron; Time Analysis 1954-58
- Folder 12 Betatron
- Folder 13 6" Cyclotron

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## Carton 26 cont.

- Folder 14 Bevatron 1947-June 1948
- Folder 15 Bevatron July 1948-1953
- Folder 16 Bevatron 1954-57
- Folder 17 Synchrotron
- Folder 18 Synchrotron; Time Analysis
- Folder 19 X-Ray Tube
- Folder 20 Counting Equipment
- Folder 21 Heavy Ion Linear Accelerator
- Folder 22 Linear Accelerator 1945
- Folder 23 Linear Accelerator 1946-52
- Folder 24 Linear Accelerator, Time Analysis
- Folder 25 Linear Accelerator; Cost Analysis
- Folder 26 Miscellaneous Equipment
- Folder 27 Particle Accelerator List 1958
- Folder 28 Thomas (Cloverleaf) Cyclotron (Livermore)
- Folder 29 90" Cyclotron (Livermore)
- Folder 30 A--48 High Current Linac (Livermore)
- Folder 31 N. Christofilos Accelerator (Livermore)
- Folder 32 Swimming Pool Reactor (Livermore)
- Folder 33 Cornell University Cyclotrons
- Folder 34 Yale University Cyclotron 1948
- Folder 35 Yale University Cyclotron 1951

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NATIONAL DEFENSE RESEARCH COMMITTEE AND  
OFFICE OF SCIENTIFIC RESEARCH AND DEVELOPMENT

This series contains correspondence, official memoranda, announcements, contracts, patents and reports concerning those research sections of the Committee and/or the OSRD in which Lawrence and the University of California Radiation Laboratory were involved, i. e. Section S-1, Microwave (D-1), Radar (D-14), Radio Chemistry (D-8) and Submarine Detection (C-4).

The series is arranged as follows:

Carton 27

- Folder 1 National Academy of Science; Atomic Fission Committee
- Folder 2 NDRC; Microwave Committee (Sec. D-1) 1940-41
- Folder 3 NDRC; Microwave Committee (Sec. D-1) January-September 1942
- Folder 4 NDRC; Microwave Committee (Sec. D-1) October-December 1942
- Folder 5 NDRC; Radar (Division 14)
- Folder 6 NDRC; Radio Chemistry (Division B)
- Folder 7 NDRC; Submarine Detection (Sec. C-4) 1941
- Folder 8 NDRC; Submarine Detection (Sec. C-4) 1942
- Folder 9 NDRC; Office of Scientific Research and Development 1940-41
- Folder 10 NDRC; Office of Scientific Research and Development 1942-45
- Folder 11 NDRC and OSRD; U.C. Contracts 1940-41
- Folder 12 NDRC and OSRD; U.C. Contracts 1942-47
- Folder 13 OSRD; Administrative Circulars 1941-April 1944
- Folder 14 OSRD; Administrative Circulars May 1944-46

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## Carton 27 cont.

Folder 15 OSRD; Memoranda 1940-44

Folder 16 OSRD; Memoranda 1945-46

Folder 17 OSRD, Section S-1; Briggs, Lyman J.

Folder 18 OSRD, Section S-1; Bush, Vannevar

Folder 19 OSRD, Section S-1; Compton, Arthur H.

Folder 20 OSRD, Section S-1; Conant, James B. 1940-1945

Folder 21 OSRD, Section S-1; Murphree, Eger V. January-October 1942

Folder 22 OSRD, Section S-1; Murphree, Eger V. November 1942-March 1943

Folder 23 OSRD, Section S-1; Murphree, Eger V. April 1943-1944

Folder 24 OSRD, Section S-1; Smyth, Henry D.

Folder 25 OSRD, Section S-1; Urey, Harold C.

Folder 26 OSRD, Section S-1; Urey, Harold C., Progress Reports

Folder 27 OSRD, Section S-1; Wensel, Henry T.

Folder 28 OSRD, Section S-1; Meetings

Folder 29 OSRD, Section S-1; Patents (in Oversize)

Folder 30 OSRD, Section S-1; Personnel

Folder 31 OSRD, Section S-1; Reports

Folder 32 OSRD; Report #28

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## MANHATTAN ENGINEER DISTRICT

This series contains correspondence, memoranda and telegrams to and from individuals and organizations, reports, drawings and minutes of meetings concerning the University of California Radiation Laboratory's role in the atomic bomb project. The material specifically covers the conversion of the 184" magnet into a mass spectrograph in order to demonstrate the electromagnetic method for the separation of uranium isotopes, the production of plutonium by the 60" cyclotron for use by micro-chemists on the plutonium project, the Laboratory's role as producer of prototypes and trainer of engineers for the full scale electromagnetic separation plant run by the Tennessee Eastman Corporation at Oak Ridge, Tennessee, construction and production progress at the Oak Ridge plant, the programs for medical research into the effects of radiation carried on at the Crocker Radiation Laboratory, the activities of the chemistry groups, and post war reports and plans for research. Unfortunately, there are only glimpses of the progress of the other uranium separation methods, the research at Donner Laboratory, and the construction of the bomb itself.

The series is arranged as follows:

## Carton 28

- Folder 1 A Miscellaneous
- Folder 2 Aebersold, Paul C.
- Folder 3 Alpha Program 1943-June 1944
- Folder 4 Alpha Program July 1944-1945
- Folder 5 American Cynamid Company
- Folder 6 Anderson, Oscar E.

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## Carton 28 cont.

Folder 7 B Miscellaneous

Folder 8 Beams, Jesse W.

Folder 9 Beta Program

Folder 10 Breit, Gregory

Folder 11 British Reports, Extracts 1942-43

Folder 12 British Reports, Extracts 1944-45

Folder 13 Brobeck, William M.

Folder 14 Bush, Vannevar

Folder 15 C Miscellaneous

Folder 16 Chemistry Research; Correspondence

Folder 17 Chemistry Research; Reports 1941-April 1942

Folder 18 Chemistry Research; Reports July 1942-1946

Folder 19 Chicago, University of

Folder 20 Chicago Metallurgical Laboratory

Folder 21 Clinton Laboratories

Folder 22 Columbia University

Folder 23 Compton, Arthur H.

Folder 24 Contract W-7405-eng-48, Historical Summary

Folder 25 Contract W-7405-eng-48, Historical Summary

Folder 26 D Miscellaneous

Folder 27 Declassification Committee

Folder 28 Documents Declassified (4/3/61-4/20/61)

Folder 29 Drawings (in Oversize)

Folder 30 Electronics

Folder 31 Equipment and Construction

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## Carton 28 cont.

- Folder 32 F Miscellaneous
- Folder 33 Fifth Track Meetings
- Folder 34 Fowler, Ralph H.
- Folder 35 General Electric Company 1941-43
- Folder 36 General Electric Company 1944-45
- Folder 37 Groves, Leslie R.
- Folder 38 H Miscellaneous
- Folder 39 Harvard University
- Folder 40 Health Division Group 1943-44
- Folder 41 Health Division Group 1945-46

## Carton 29

- Folder 1 Health Division Group; 60" Cyclotron Monthly Reports 1943-44
- Folder 2 Health Division Group; 60" Cyclotron Monthly Reports 1945
- Folder 3 Health Division Group; 60" Cyclotron Monthly Reports 1946
- Folder 4 Historical Reports 1942-45
- Folder 5 Historical Reports 1946
- Folder 6 Historical Reports; Barton Report
- Folder 7 Illinois, University of
- Folder 8 Iowa State College
- Folder 9 J Miscellaneous
- Folder 10 K Miscellaneous
- Folder 11 Kamen, Martin D.
- Folder 12 L Miscellaneous

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## Carton 29 cont.

Folder 13 Lawrence, Ernest O.

Folder 14 Los Alamos Scientific Laboratory, Project 36 1942-44

Folder 15 Los Alamos Scientific Laboratory, Project 36 1945-46

Folder 15A Los Alamos Scientific Laboratory, Project 36; Report Receipts

Folder 16 M Miscellaneous

Folder 17 McLaughlin, Donald H.

Folder 18 Marshall, James C.

Folder 19 Massachusetts Institute of Technology

Folder 19A Massachusetts Institute of Technology; Radiation Laboratory; Report Receipts

Folder 20 Metal Hydrides, Inc.

Folder 21 Moyer, Burton J.

Folder 22 N Miscellaneous

Folder 23 Nichols, Kenneth D.

Folder 24 O Miscellaneous

Folder 25 Oak Ridge; Y-12

Folder 26 Oak Ridge; Y-12, Progress Reports 1944

Folder 27 Oak Ridge; Y-12, Progress Reports 1945

Folder 28 Oliphant, Marcus L.

Folder 29 Operation Crossroads

Folder 30 Oppenheimer, J. Robert

Folder 31 P Miscellaneous

Folder 32 Patents

Folder 33 Personnel 1942-43

Folder 34 Personnel 1944-45

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## Carton 29 cont.

- Folder 35 Personnel; Lists A and B
- Folder 36 Post-War Reports; Planning #1
- Folder 37 Post-War Reports; Planning #2
- Folder 38 Post-War Reports; Reports and Plans

## Carton 30

- Folder 1 Post-War Reports; Atomic Bomb, Teletypes
- Folder 2 Post-War Reports; Atomic Bomb, Letters
- Folder 3 Post-War Reports; Bush Report
- Folder 4 Post-War Reports; Smyth Report
- Folder 5 Post-War Reports; Bombing Reports
- Folder 6 Princeton University
- Folder 7 Process Engineer<sup>ing</sup> Committee
- Folder 8 Process Improvement Operations Group
- Folder 9 Progress and Personnel Reports 1943
- Folder 10 Progress and Personnel Reports 1944
- Folder 11 Progress and Personnel Reports 1945
- Folder 12 Progress and Personnel Reports 1946-47
- Folder 13 R Miscellaneous
- Folder 14 Reports, Various 1942
- Folder 15 Reports, Various 1943
- Folder 16 Reports, Various 1944-45
- Folder 17 Reports; Distribution Lists
- Folder 17A Reports; Distribution Notebooks #1 (two books)
- Folder 17B Reports; Distribution Notebooks #2 (one)
- Folder 17C Reports; Distribution Notebooks #3 (one)
- Folder 18A Reports; Receipts of Reports Destroyed

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## Carton 30 cont.

- Folder 18B Reports; Receipts of Reports Transferred to Information Division 1943-47
- Folder 18C Reports; Receipts of Reports Transferred to Information Division 1948-49
- Folder 19 Research and Supply Meetings
- Folder 20 Reynolds, Wallace B.
- Folder 21 S Miscellaneous
- Folder 22 Seaborg, Glenn T.
- Folder 23 Security
- Folder 24 Shane, Charles D.
- Folder 25 Shane, Charles D.; Notebook (3/11/43-2/7/44)
- Folder 26 Standard Oil Development Company
- Folder 27 Stone and Webster Engineering Corporation

## Carton 31

- Folder 1 T Miscellaneous
- Folder 2 Telephone and Telegram Record Book
- Folder 3 Teletype Lists
- Folder 4 Teletype Record Book
- Folder 5 Tennessee Eastman Corporation; Alpha Meetings
- Folder 6 Tennessee Eastman Corporation; Beta Meetings 1943
- Folder 7 Tennessee Eastman Corporation; Beta Meetings 1944
- Folder 8 Tennessee Eastman Corporation; Correspondence 1943
- Folder 9 Tennessee Eastman Corporation; Correspondence 1944-46
- Folder 10 Tennessee Eastman Corporation; Miscellaneous Meetings
- Folder 11 Tennessee Eastman Corporation; Progress Reports, Chemical Divisions 1944
- Folder 12 Tennessee Eastman Corporation; Progress Reports, Chemical Divisions 1945

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## Carton 31 cont.

- Folder 31 W Miscellaneous
- Folder 32 Washington University
- Folder 33 Westinghouse Corporation 1941-43
- Folder 34 Westinghouse Corporation 1944-45
- Folder 35 Wisconsin, University of
- Folder 36 Y Miscellaneous

1173708

## ATOMIC ENERGY COMMISSION

This series contains correspondence, memoranda and telegrams to and from individuals concerning the formation of the Atomic Energy Commission, laboratories under contract with the Commission, research proposals to the Commission and Commission members. In addition there are minutes of meetings and reports concerning the University of California Radiation Laboratory projects contracted by the Commission. Some of the projects represented are ship decontamination studies, weapons research, nuclear propulsion and biomedical research on the effects of radiation such as that produced in a reactor accident or by radioactive fall out.

The series is arranged as follows:

Carton 32

Folder 1	General Correspondence 1946
Folder 2	General Correspondence January-June 1947
Folder 3	General Correspondence July-December 1947
Folder 4	General Correspondence January-June 1948
Folder 5	General Correspondence July-December 1948
Folder 6	General Correspondence 1949
Folder 7	General Correspondence 1950
Folder 8	General Correspondence 1951
Folder 9	General Correspondence 1952
Folder 10	General Correspondence 1953
Folder 11	General Correspondence 1954
Folder 12	General Correspondence 1955
Folder 13	General Correspondence 1956
Folder 14	General Correspondence 1957

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## Carton 32 cont.

- Folder 15 General Correspondence 1958
- Folder 16 General Correspondence 1959
- Folder 17 Ad Hoc Committee on Personnel Clearance (1955)
- Folder 18 Appointments (to AEC jobs)
- Folder 19 Biomedical Research 1946-47
- Folder 20 Biomedical Research 1948-49
- Folder 21 Biomedical Research 1950-51
- Folder 22 Biomedical Research 1952-53
- Folder 23 Biomedical Research 1954-57
- Folder 24 Information Meetings (1946-49)
- Folder 25 Joint AEC-Department of Defense Radiological Warfare Panel
- Folder 26 Joint Committee on Atomic Energy
- Folder 27 Laboratory Directors' Meetings 1946
- Folder 28 Laboratory Directors' Meetings 1947-49
- Folder 29 Laboratory Directors' Meetings 1950-58
- Folder 30 Legislation; Ball Bill
- Folder 31 Legislation; May-Johnson Bill
- Folder 32 Legislation; McMahon Bill
- Folder 33 Reports
- Folder 34 Research Proposals 1950-51
- Folder 35 Research Proposals 1953-54

## Carton 33

- Folder 1 Security 1942-49
- Folder 2 Security 1950-57

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## Carton 33 cont.

- Folder 3 Speeches
- Folder 4 United Nations A.E.C.; Articles
- Folder 5 United Nations A.E.C.; Reports
- Folder 6 United Nations A.E.C.; Baruch Committee
- Folder 7 United Nations A.E.C.; Baruch Reports June-September 1946
- Folder 8 United Nations A.E.C.; Baruch Reports October-December 1946
- Folder 9 United Nations A.E.C.; Miscellaneous Reports 1946
- Folder 10 United Nations A.E.C.; Miscellaneous Reports 1947

1173711

## MATERIALS TESTING ACCELERATOR PROGRAM

This series contains correspondence, articles and reports concerning the establishment, research activities and administration of the University of California Livermore Radiation Laboratory's program to develop a high-energy, high-current deuteron linear accelerator that would produce neutrons by impact on heavy targets. Included, also, is information about the California Research and Development Company, a private company founded to help with the program, and material relating to the program's cancellation in 1954.

The series is arranged as follows:

Carton 33 cont.

Folder 11	Livermore	January-July 1950
Folder 12	Livermore	August-September 1950
Folder 13	Livermore	October-December 1950
Folder 14	Livermore	January-May 1951
Folder 15	Livermore	June-July 1951
Folder 16	Livermore	August-December 1951
Folder 17	Livermore	January-April 1952
Folder 18	Livermore	May-December 1952
Folder 19	Livermore	1953
Folder 20	Livermore	1954
Folder 21	Livermore	1955-61
Folder 22	Livermore;	Reports 1951
Folder 23	Livermore;	Reports 1954

1173712

## FALLOUT

This series contains Atomic Energy Commission reports and press releases, articles and papers by various individuals, and minutes of congressional hearings concerning radioactive fallout from nuclear weapons testing. The material is mostly from the late 1950's.

The series is arranged as follows:

Carton 34

- Folder 1 AEC Press Releases
- Folder 2 AEC Reports 1958
- Folder 3 AEC Reports 1959
- Folder 4 Civil Defense
- Folder 5 Congressional Hearings
- Folder 6 Correspondence
- Folder 7 Dunham, Charles L.
- Folder 8 General Advisory Committee
- Folder 9 Gofman, John W.
- Folder 10 Joint Committee on Atomic Energy
- Folder 11 Jones, Hardin
- Folder 12 Libby, Willard F.
- Folder 13 McCone, John A.
- Folder 14 Miscellaneous Articles 1949-57
- Folder 15 Miscellaneous Articles 1958-62
- Folder 16 National Academy of Sciences
- Folder 17 Newspaper Articles

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Carton 34 cont.

Folder 18 Public Health; United States and California

Folder 19 Science Magazine

"Conference of Experts to Study the Possibility of Detecting  
Violations of a Possible Agreement on Suspension of Nuclear  
Tests" July 1958 Volumes I, II, and III

1173714

PATENTS

This series includes copies of patents and correspondence about patents taken out by Lawrence and various University of California Radiation Laboratory personnel.

The series is arranged as follows:

Carton 35

- Folder 1 Policy and Board of Patents
- Folder 2 Cyclotron Patent
- Folder 3 Cyclotron Patent Letters
- Folder 4 E. O. Lawrence, Miscellaneous Patents
- Folder 5 E. O. Lawrence, Miscellaneous Patents
- Folder 6 E. O. Lawrence, Applications
- Folder 7 Radioactive Substances, Patent Applications
- Folder 8 David Sloan, Applications
- Folder 9 UCRL Employees A-B
- Folder 10 UCRL Employees C-K
- Folder 11 UCRL Employees L-W
- Folder 12 Miscellaneous

## TRAVEL RECORDS

This series includes requests and permissions for leaves of absence and bills for trips taken by Lawrence and various University of California Radiation Laboratory personnel.

The series is arranged as follows:

Carton 35 cont.

- Folder 13 Europe; Nobel 1951
- Folder 14 Japan 1951
- Folder 15 Europe and North Cape 1951
- Folder 16 World Tour 1953
- Folder 17 Atoms for Peace; Japan 1955
- Folder 18 Navy; South America 1956
- Folder 19 Navy; Mediterranean 1957
- Folder 20 Geneva 1958
- Folder 21 UCRL; Donald Cooksey 1948-51
- Folder 22 UCRL; Donald Cooksey 1952-58
- Folder 23 UCRL 1929-41
- Folder 24 UCRL 1942
- Folder 25 UCRL 1943
- Folder 26 UCRL 1944
- Folder 27 UCRL January-July 1945
- Folder 28 UCRL August-December 1945
- Folder 29 UCRL 1946
- Folder 30 UCRL 1947

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## Carton 36

Folder 1	UCRL 1948
Folder 2	UCRL 1949
Folder 3	UCRL 1950
Folder 4	UCRL 1951
Folder 5	UCRL 1952
Folder 6	UCRL 1953
Folder 7	UCRL 1954
Folder 8	UCRL 1955
Folder 9	UCRL 1956
Folder 10	UCRL January-July 1957
Folder 11	UCRL August-December 1957
Folder 12	UCRL 1958

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## DEGREES, MEMBERSHIPS, AWARDS AND APPOINTMENTS

This series contains announcements and programs for ceremonies, correspondence about Lawrence's election to various organizations and congratulatory letters. Included occasionally are minutes of meetings, awards and certificates,

The series is arranged as follows:

## DEGREES

Carton 36 cont.

Folder 13 Yale University; Ph.D. 1925

## HONORARY DEGREES

Folder 14 University of South Dakota; Sc.D. 1937

Folder 15 Stevens Institute of Technology; Sc.D. 1937

Folder 16 Yale University; Sc.D. 1937

Folder 17 Princeton University; Sc.D. 1937

Folder 18 University of Michigan; LL.D. 1938

Folder 19 University of Chicago; Sc.D. 1941

Folder 20 Harvard University; Sc.D. 1941

Folder 21 Rutgers University; Sc.D. 1941

Folder 22 University of Pennsylvania; LL.D. 1942

Folder 23 McGill University; Sc.D. 1946

Folder 24 University of British Columbia; Sc.D. 1947

Folder 25 University of Southern California; Sc.D. 1949

Folder 26 University of San Francisco; Sc.D. 1949

Folder 27 University of Glasgow; LL.D. 1951

## FELLOW

Folder 28 American Physical Society 1932

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## Carton 36 cont.

Folder 29 American Association for the Advancement of  
Science 1934

Folder 30 American Academy of Arts and Sciences

## HONORARY FELLOWSHIPS

Folder 31 Stanford University 1941

Folder 32 National Institute of Sciences of India 1941

Folder 33 Institute of Medicine of Chicago 1941

Folder 34 Royal Society of Edinburgh 1946

Folder 35 The Physical Society 1948

Folder 36 Indian Academy of Sciences 1954

## FOREIGN MEMBERSHIPS

Folder 37 Royal Swedish Academy of Sciences

## HONORARY MEMBERSHIPS

Folder 38 Bohemian Club; Letters 1934-53

Folder 39 Bohemian Club; Letters 1954-58

Folder 40 Bohemian Club; Grove (notices of encampments)

Folder 41 Bohemian Club; Publicity

Folder 42 Bohemian Club; Reports

Folder 43 California Academy of Sciences 1940

Folder 44 Academy of Science, U. S. S. R. 1942

## MEMBERSHIPS

Folder 45 Solvay Congress, Brussels 1933

Folder 46 Solvay Congress; Reports (speeches incl. Rutherford,  
Cockroft, Chadwick, Joliot)

## Carton 37

Folder 1 National Academy of Sciences 1934

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## Carton 37 cont.

- Folder 2 American Philosophical Society 1937
- Folder 3 American-Scandinavian Foundation 1941
- Folder 4 Newcomen Society of England 1948
- Folder 5 Physical Society of Japan 1954
- Folder 6 California Alumni Association
- Folder 7 Alumni Association of the University of South Dakota
- Folder 8 Trustee; Carnegie Institution of Washington 1944-51
- Folder 9 Trustee; Carnegie Institution of Washington 1952-58
- Folder 10 Trustee; Rand Corporation
- Folder 11 Rand Corporation; Record of Documents Returned 1948-56
- Folder 12 Rand Corporation; Record of Documents Returned 1957-58
- Folder 13 Director; Yosemite Park and Curry Company
- Folder 14 Director; Monsanto Chemical Company 1949-57
- Folder 15 Director; Monsanto Chemical Company 1958

## MEDALS AND AWARDS

- Folder 16 Elliot Cresson Medal 1937
- Folder 17 Research Corporation Plaque 1937
- Folder 18 Comstock Prize 1937
- Folder 19 Hughes Medal 1937
- Folder 20 Nobel Prize, Physics 1939
- Folder 21 Nobel Prize; Letters A-D
- Folder 22 Nobel Prize; Letters E-K
- Folder 23 Nobel Prize; Letters L-P
- Folder 24 Nobel Prize; Letters R-Z

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## Carton 37 cont.

- Folder 25 Duddell Medal 1940
- Folder 26 William S. Dunn Award 1940
- Folder 27 National Association of Manufacturer's Award 1940
- Folder 28 Holley Medal 1942
- Folder 29 Copernican Citation 1943
- Folder 30 Benjamin Ide Wheeler Award 1945
- Folder 31 Medal for Merit 1946
- Folder 32 Medal of Trasenster 1947
- Folder 33 Officer de la Legion d'Honneur 1948
- Folder 34 Phi Delta Epsilon Award 1948
- Folder 35 William Proctor Prize 1951
- Folder 36 Faraday Medal 1952
- Folder 37 American Cancer Society Medal 1954
- Folder 38 Raymond E. Hackett Award 1954
- Folder 39 Enrico Fermi Award 1957
- Folder 40 Enrico Fermi Award; Letters A-II
- Folder 41 Enrico Fermi Award; Letters J-O
- Folder 42 Enrico Fermi Award; Letters P-Z
- Folder 43 Sylvanus Thayer Award 1958
- Folder 44 Sylvanus Thayer Award; Letters

## APPOINTMENTS

## Carton 38

- Folder 1 Consulting Board, Columbia University Institute of Cancer Research
- Folder 2 National Academy of Science, Comstock Prize Committee 1940-44
- Folder 3 National Defense Research Committee, Office of Scientific Research and Development

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## Carton 38 cont.

- Folder 4 Harvard University, Ad Hoc Committee 1945
- Folder 5 Research Board for National Security 1945-46
- Folder 6 Board of Foreign Scholarships 1947
- Folder 7 Board of Foreign Scholarships 1948
- Folder 8 Board of Foreign Scholarships 1949
- Folder 9 Board of Foreign Scholarships 1950
- Folder 10 Board of Foreign Scholarships 1951
- Folder 11 Board of Foreign Scholarships; Minutes 1947
- Folder 12 Board of Foreign Scholarships; Minutes January 1948
- Folder 13 Board of Foreign Scholarship; Minutes February-December 1948
- Folder 14 Board of Foreign Scholarships; Minutes May 1949 part 1
- Folder 15 Board of Foreign Scholarships; Minutes May 1949 part 2
- Folder 16 Board of Foreign Scholarships; Minutes September-December 1949
- Folder 17 Board of Foreign Scholarships; Minutes 1950
- Folder 18 Board of Foreign Scholarships; Information 1946-47
- Folder 19 Board of Foreign Scholarships; Information 1948-49
- Folder 20 Board of Foreign Scholarships; Information 1950-53
- Folder 21 Elector, Hall of Fame, New York University
- Folder 22 United Nations Disarmament Sub-Committee, Nuclear Task Force
- Folder 23 Delegate to Geneva Conference on the Peaceful Uses of Atomic Energy 1955
- Folder 24 Delegate to Geneva Conference on the Peaceful Uses of Atomic Energy; Bulletins
- Folder 25 Delegate to Geneva Conference on the Peaceful Uses of Atomic Energy 1956-May 1958

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## Carton 38 cont.

- Folder 26 Delegate to Geneva Conference on the Peaceful Uses  
of Atomic Energy June-December 1958
- Folder 27 U. S. Scientific Advisory Committee, Brussel's  
Exhibition 1958

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## WORK BOOKS

This series contains the laboratory work books of Ernest Lawrence, M. Stanley Livingston and Malcolm C. Henderson and Lawrence's own copies of notes for his class lectures.

The series is arranged as follows:

## Carton 39

- |           |  |  |
|-----------|--|--|
| Folder 1  | E. O. Lawrence Work Book                             | March-August 1924  |
| Folder 2  | E. O. Lawrence Work Book                             | September 1925- <del>October 1931</del> <sup>JAN. 1932</sup> |
| Folder 3  | E. O. Lawrence Work Book                             | October-December 1927  |
| Folder 4  | E. O. Lawrence Work Book                             | January 1928-June 1929                                       |
| Folder 5  | E. O. Lawrence Work Book                             | May 1932-January 1933  |
| Folder 6  | E. O. Lawrence Work Book                             | November 1933-March 1934                                     |
| Folder 7  | E. O. Lawrence Work Book                             | March 1934-August 1934                                       |
| Folder 8  | E. O. Lawrence Work Book                             | July 1947-October 1948                                       |
| Folder 9  | M. S. Livingston Work Book                           | September 1930-January 1931                                  |
| Folder 10 | M. S. Livingston Work Book                           | February 1933-May 1933                                       |
| Folder 11 | M. S. Livingston Work Book                           | May 1933-December 1933                                       |
| Folder 12 | M. C. Henderson Work Book                            | December 1933-August 1934                                    |
| Folder 13 | Log Book   | December 7, 1934-July 19, 1936                               |
| Folder 14 | E. O. Lawrence Lectures and Notes                    | 1929-35  |
| Folder 15 | E. O. Lawrence Lectures and Notes                    | 1936   |
| Folder 16 | E. O. Lawrence Lectures and Notes                    | 1937-40  |
| Folder 17 | E. O. Lawrence Miscellaneous Notes                   |  |
| Folder 18 | E. M. McMillan Lecture, Nuclear Physics for Engineer | January 29, 1946   |
| Folder 19 | Lawrence and Cooksey, Geiger Counter Paper           | 1932   |
| Folder 20 | McClure's Magazine, Radium Article                   | November 1903  |

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## LECTURE NOTES

This series contains notes taken by Lawrence of lectures he attended and notes taken by others of his lectures.

The series is arranged as follows:

Carton 39 cont.

- Folder 21 Unipolar Induction
- Folder 22 Electricity and Magnetism
- Folder 23 Electricity and Magnetism, W. F. G. Swann Book 1
- Folder 24 Electricity and Magnetism, W. F. G. Swann Book 2
- Folder 25 Theoretical Physics Elasticity 1922

Carton 40

- Folder 1 Theory of Functions 1923
- Folder 2 Thermodynamics 1923
- Folder 3 Physical Optics 1923
- Folder 4 X-rays 1923
- Folder 5 Electromagnetic Theory of Light 1924
- Folder 6 Differential Geometry 1924
- Folder 7 Electrodynamics 1924
- Folder 8 Application of Vector Analysis to Electromagnetic Theory 1924
- Folder 9 General Relativity 1925
- Folder 10 Physics 2B, Electricity and Magnetism 1931-32
- Folder 11 Mathematical Theory of Electricity
- Folder 12 Mathematical Theory of Electricity; Cyrus L. Clark Copy
- Folder 13 Electrodynamics

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## SPEECHES AND REPRINTS

This series includes the drafts and final copies of Lawrence's speeches and articles; reprints of his articles and speeches; and related correspondence about speaking engagements.

Phono records of speeches have been removed for separate indexing in the Library's Audio-Visual Division.

The series is arranged as follows:

## SPEECHES

Carton 40 cont.

- Folder 14 Transmutations of Sodium by Deutons 1934
- Folder 15 Radio and Television talks 1934-56
- Folder 16 Cornell and Ann Arbor Lectures 1933-36
- Folder 17 Sigma Xi Lectures 1933-40
- Folder 18 Science and Technology (Commencement Address, Stevens Institute of Technology) June 12, 1937
- Folder 19 Response to Presentation of Comstock Prize, Rochester, New York October 26, 1937
- Folder 20 Atoms, New and Old (Faculty Research Lecture) March 20, 1938
- Folder 21 Pure Science and the Practical World (Commencement Address, University of South Dakota) June 1938
- Folder 22 Introduction and Conclusion to Convocation Address (American College of Physicians Meetings) March 29, 1939
- Folder 23 Acceptance Nobel Award February 29, 1940
- Folder 24 The New Frontiers in the Atom (50th Anniversary, Stanford) June 16, 1941
- Folder 25 Nuclear Physics and Biology (Symposium at Rutgers University) October 10, 1941
- Folder 26 Talks to Laboratory Personnel 1943-44

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## Carton 40 cont.

- Folder 27 The Atomic Bomb Project (Board of Regents Meeting) August 17, 1945
- Folder 28 The Experimental Problem of Accelerating Charged Particles (American Physical Society Meeting, Berkeley) July 13, 1946
- Folder 29 Atomic Engineering (Award of Holley Medal) July 26, 1946
- Folder 30 Experimental Methods of Nuclear Physics (Princeton University Bicentennial) September 24, 1946
- Folder 31 The Future of the University in the Atomic Age (Second All-University Faculty Conference) February 10, 1947
- Folder 32 High Energy Physics (Silliman Lecture, Yale University) October 15, 1947
- Folder 33 Tribute to J. B. Conant (Associated Harvard Clubs Meeting, San Francisco) September 10, 1949
- Folder 34 The Evolution of the Cyclotron (Nobel Lecture) December 11, 1951
- Folder 35 Hopkins Atoms for Peace Mission to Japan May 1955
- Folder 36 High Current Accelerators (Geneva) August 11, 1955
- Folder 37 Men and Atoms (A Report on the Geneva Conference to University of California Students) September 27, 1955
- Folder 38 Twenty-Five Years of Physics at the University of California (Symposium on the Physical and Earth Sciences, 25th Presidential Year of R. G. Sproul) October 18, 1955
- Folder 39 Introduction of Sir John Cockcroft (National Industrial Conference Board Luncheon Meeting, New York) October 26, 1955
- Folder 40 Dedication of the Willard Gibbs Research Center, Yale University October 28, 1955
- Folder 41 American Physical Society (Invited Paper, Mexico City) August 1955
- Folder 42 Address, Regents Dinner November 15, 1956
- Folder 43 Faraday Medal Award (Script for British Movietone News) January 1957

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## Carton 40 cont.

- Folder 44 Dedication of Vallecitos Laboratory (General Electric Co.) May 22, 1957
- Folder 45 Science and the National Welfare (Robert A. Welch Foundation Conference, Houston, Texas) November 21, 1957
- Folder 46 Sylvanus Thayer Award (U. S. Military Academy, West Point) March 21, 1958
- Folder 47 Speech Source Material
- Folder 48 Philharmonic Speech (prepared, never given) 1945
- Folder 49 Miscellaneous Speeches (without manuscripts) 1931-36
- Folder 50 Miscellaneous Speeches (without manuscripts) 1937-40
- Folder 51 Miscellaneous Speeches (without manuscripts) 1941-51

## Carton 41

- Folder 1 Speech Requests 1933-38
- Folder 2 Speech Requests 1939-40
- Folder 3 Speech Requests 1941-45
- Folder 4 Speech Requests 1947-48
- Folder 5 Speech Requests 1949-58

## REPRINTS

- Folder 6 "The Charging Effect Produced by the Rotation of a Prolate Iron Spheroid in a Uniform Magnetic Field" May 1924
- Folder 7 "The Photo-Electric Effect in Potassium Vapour as a Function of the Frequency of the Light" August 1925
- Folder 8 "The Role of the Faraday Cylinder in the Measurement of Electron Currents" January 1926
- Folder 9 "Transition Probabilities: Their Relation to Thermionic Emission and the Photo-Electric Effect" May 1926
- Folder 10 "A Principle of Correspondence" August 6, 1926
- Folder 11 "The Ionization of Atoms By Electron Impact" November 1926

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## Carton 41 cont.

- Folder 12 "On the Nature of Light" April 1927
- Folder 13 "Ultra-Ionization Potentials of Mercury" July 1927
- Folder 14 "On the Lag of the Kerr Effect" July 1927
- Folder 15 "On Relaxation of Electric Fields in Kerr Cells and Apparent Lags of the Kerr Effect" August 1928
- Folder 16 "Element of Time in the Photoelectric Effect" September 1928
- Folder 17 "Photo-Ionization of the Vapors of Caesium and Rubidium" July 15, 1929
- Folder 18 "Photo-Ionization of Potassium Vapor" October 1, 1929
- Folder 19 "Effect of Intense Electric Field on the Photoelectric Behavior of Alkali Films on Tungsten" December 1, 1929
- Folder 20 "Early Stages of Electric Spark Discharges" December 15, 1929
- Folder 21 "An Intense Source of Continuous Ultraviolet Light" January 1930
- Folder 22 Abstract: "Broadening of Spectrum Lines During Early Stages of Spark Discharges" January 1930
- Folder 23 "On the Early Stages of Electric Sparks" February 15, 1930
- Folder 24 "Effect of Intense Electric Fields on the Photoelectric Properties of Metals" August 1, 1930
- Folder 25 "On the Direction of Emission of Photoelectrons from Potassium Vapor by Ultraviolet Light" September 15, 1930
- Folder 26 "On the Production of High Speed Protons" October 10, 1930
- Folder 27 "Production of High Speed Canal Rays Without the Use of High Voltages" January 1931
- Folder 28 "Production of High Speed Protons Without the Use of High Voltages" August 15, 1931
- Folder 29 "Production of Heavy High Speed Ions Without the Use of High Voltages" December 1, 1931

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## Carton 41 cont.

- Folder 30 "Production of High Speed Light Ions Without the Use of High Voltages" April 1, 1932
- Folder 31 "Disintegration of Lithium by Swiftly Moving Protons" October 1, 1932
- Folder 32 "Disintegration of Boron by Swiftly Moving Protons" February 15, 1933
- Folder 33 "The Disintegration of Aluminum by Swiftly Moving Protons" March 1, 1933
- Folder 34 "The Emission of Protons from Various Targets Bombarded by Deutons of High Speed" July 1, 1933
- Folder 35 "The Emission of Alpha-Particles from Various Targets Bombarded by Deutons of High Speed" July 1, 1933
- Folder 36 "Neutrons from Deutons and the Mass of the Neutron" November 1, 1933
- Folder 37 "Neutrons from Beryllium Bombarded by Deutons" November 1, 1933
- Folder 38 "The Emission of Protons and Neutrons from Various Targets Bombarded by Three Million Volt Deutons" February 1, 1934
- Folder 39 "The Disintegration of Deutons by High Speed Protons and the Instability of the Deuteron" February 15, 1934
- Folder 40 "Artificial Radioactivity Produced by Deuteron Bombardment" March 15, 1934
- Folder 41 "On the Hypothesis of the Instability of the Deuteron" April 1, 1934
- Folder 42 "The Multiple Acceleration of Ions to Very High Speeds" May 1, 1934
- Folder 43 "The Transmutation of Fluorine by Proton Bombardment and the Mass of Fluorine" July 1, 1934
- Folder 44 "Radioactivity Artificially Induced by Neutron Bombardment" August 1934
- Folder 45 "Radioactive Sodium Produced by Deuteron Bombardment" October 15, 1934
- Folder 46 "Transmutations of Sodium by Deutons" January 1, 1935

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## Carton 41 cont.

- Folder 47 "Transmutations of Nitrogen by Deutons" February 15, 1935
- Folder 48 "Transmutations of Aluminum by Deutons" March 1, 1935
- Folder 49 "A New Type of Excitation Function for Nuclear Reactions" May 3, 1935
- Folder 50 "The Transmutation Functions for Some Cases of Deuteron Induced Radioactivity" September 15, 1935
- Folder 51 "Artificial Radioactivity" September 1935
- Folder 52 "The Biological Action of Neutron Rays" February 1936
- Folder 53 "The Transmutation of Platinum by Deuterons" June 1, 1936
- Folder 54 "Comparative Effects of X-Rays and Neutrons on Normal and Tumor Tissue" September 1936
- Folder 55 "On the Apparatus for the Multiple Acceleration of Light Ions to High Speeds" December 15, 1936
- Folder 56 "The Comparative Effects of Neutrons and X-Rays on Normal and Neoplastic Tissue" June 1937
- Folder 57 "The Biological Action of Neutron Rays" September 1937
- Folder 58 "Science and Technology" September and October 1937
- Folder 59 "An Improved Cyclotron" November 5, 1937
- Folder 60 Response to Presentation of the Comstock Prize November 5, 1937
- Folder 61 "The Cyclotron and the Elementary Course in Electricity" October 1938
- Folder 62 "Radioactive Iron and Its Metabolism in Anemia" December 17, 1938
- Folder 63 "Atoms, New and Old" 1939
- Folder 64 "Radioactive Iron and Its Metabolism in Anemia" May 1, 1939
- Folder 65 "Initial Performance of the 60" Cyclotron of the William H. Crocker Radiation Laboratory" July 1, 1939

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## Carton 41 cont.

- Folder 66 "The Medical Cyclotron of the William H. Crocker Radiation Laboratory" November 3, 1939
- Folder 67 Acceptance of Nobel Prize Award 1940
- Folder 68 "The New Frontiers in the Atom" 1941
- Folder 69 "Nuclear Physics and Biology" 1942
- Folder 70 "High Energy Physics" July 10, 1946
- Folder 71 "Initial Performance of the 184-inch Cyclotron of the University of California" April 1, 1947
- Folder 72 "High Energy Physics" January 1948
- Folder 73 "High Energy Physics" 1949
- Folder 74 "High Energy Physics" (undated)
- Folder 75 "A Progress Report on the Cyclotron" December 1948
- Folder 76 Address to The Associated Harvard Clubs 1950
- Folder 77 "The Evolution of the Cyclotron" December 1951
- Folder 78 "A High Vacuum High Speed Ion Pump" May 1953
- Folder 79 "High-Current Accelerators" December 1955
- Folder 80 "Men and Atoms" December 1955
- Folder 81 "Science and the National Welfare" November 1957
- Folder 82 Symposium on the Physical and Earth Sciences Spring 1958

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## MEMOIRS

This series contains a copy of the memorial service given for Lawrence; biographical material; speeches about him; and copies of magazine articles written about him after his death.

The series is arranged as follows:

Carton 41 cont.

- Folder 83 Memorial Correspondence
- Folder 84 Memorial Service and Articles
- Folder 85 Memorial Service; Kerr
- Folder 86 Lawrence Memorial Fund; University of California
- Folder 87 Biographical Memoir; Alvarez
- Folder 88 Biographical Memoir: Wilkes
- Folder 89 Magazine Articles

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MISCELLANEOUS INSTITUTIONS

This series contains bulletins, brochures, proceedings and annual reports of various Foundations, Laboratories, Societies and Universities collected in Lawrence's files.

The series is arranged as follows:

Carton 42

- Folder 1 Atomic Energy Research Establishment, Harwell
- Folder 2 Atomic Energy Research Establishment, Harwell; Conference 1950
- Folder 3 American Physical Society; Meetings
- Folder 4 American Physical Society; Proceedings
- Folder 5 American Scandinavian Foundation
- Folder 6 Argonne National Laboratory
- Folder 7 Association for Applied Solar Energy
- Folder 8 Australian National University
- Folder 9 Birmingham, The University of
- Folder 10 British Association for the Advancement of Science
- Folder 11 British Columbia, University of
- Folder 12 Brookhaven National Laboratory
- Folder 13 Brookhaven National Laboratory; Reports 1947
- Folder 14 Brookhaven National Laboratory; Reports 1948-51
- Folder 15 California Institute of Technology
- Folder 16 California Institute of Technology; Publications
- Folder 17 Carnegie Corporation of New York
- Folder 18 Carnegie Institute of Technology
- Folder 19 Carnegie Institution of Washington 1941-47
- Folder 20 Carnegie Institution of Washington 1948-49

## Carton 42 cont.

- Folder 21 Carnegie Institution of Washington 1950-54
- Folder 22 Carnegie Institution of Washington 1955-58
- Folder 23 National Academy of Sciences; Abstracts of Papers 1934-45
- Folder 24 National Academy of Sciences; Abstracts of Papers 1948-58
- Folder 25 National Academy of Sciences; Berkeley Physics Conference 1948
- Folder 26 National Academy of Sciences; Correspondence
- Folder 27 National Academy of Sciences; Membership
- Folder 28 National Adademy of Sciences; Meetings 1935-54
- Folder 29 National Academy of Sciences; Meetings 1955-58

## Carton 43

- Folder 1 National Academy of Sciences; National Research Council
- Folder 2 National Academy of Sciences; National Research Council, Reports 1934-47
- Folder 3 National Academy of Sciences; National Research Council, Reports 1950-58
- Folder 4 National Academy of Sciences; National Science Fund
- Folder 5 National Academy of Sciences; Officers and Members 1934-41
- Folder 6 National Academy of Sciences; Officers and Members 1942-57
- Folder 7 National Academy of Sciences; Proceedings
- Folder 8 National Academy of Sciences; Rules
- Folder 9 National Advisory Cancer Council
- Folder 10 National Cancer Institute
- Folder 11 National Foundation for Care of Advanced Cancer Patients

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## Carton 43 cont.

- Folder 12 National Science Foundation
- Folder 13 National Science Foundation; U. S. Congress
- Folder 14 New York University
- Folder 15 New York University; Hall of Fame
- Folder 16 Nobel Foundation
- Folder 17 North Carolina, University of
- Folder 18 Oak Ridge National Laboratory
- Folder 19 Ohio State University
- Folder 20 Oslo, University of
- Folder 21 Pennsylvania, University of
- Folder 22 Physical Science Study Committee
- Folder 23 The Physical Society, London
- Folder 24 The Physical Society, London; Year Book
- Folder 25 Pittsburgh, University of
- Folder 26 Pratt Institute

## Carton 44

- Folder 1 Princeton University
- Folder 2 Reed College
- Folder 3 Research Board for National Security
- Folder 4 Research Corporation
- Folder 5 Research Corporation; Annual Reports
- Folder 6 Rice Institute
- Folder 7 Rochester, University of
- Folder 8 Rockefeller Foundation; Annual Report
- Folder 9 Rockefeller Foundation; Grants
- Folder 10 Rockefeller Foundation; Review

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## CRANK LETTERS

This series includes letters on various subjects such as the physics and design of cyclotrons, cancer therapy, effects of radiation, atomic weapons, etc. Copies of some replies are included.

The series is arranged alphabetically.

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## RESTRICTED FILES

These include personal letters from John H. Lawrence, Alfred L. Loomis, Frank F. Oppenheimer, Ruby Patterson and Edwin W. Pauley to Ernest Lawrence. They are available for use only by the written permission of the correspondent. Also, included are the financial records of contributions of various donors to the University of California Radiation Laboratory and the records of the Lawrence Special Fund. They are available for use by scholars only with the written consent of both the Directors of the Lawrence Berkeley Laboratory and the Bancroft Library.

The series is arranged as follows:

## PERSONAL

## Carton 46

- Folder 1 Lawrence, John H. 1931-37
- Folder 2 Lawrence, John H. 1938
- Folder 3 Lawrence, John H. 1939
- Folder 4 Lawrence, John H. January-May 1940
- Folder 5 Lawrence, John H. June-December 1940
- Folder 6 Lawrence, John H. 1941-49
- Folder 7 Lawrence, John H. 1950-59
- Folder 8 Loomis, Alfred L. 1939-40
- Folder 9 Loomis, Alfred L. 1941-46
- Folder 10 Loomis, Alfred L. 1947-59
- Folder 11 Oppenheimer, Frank F.
- Folder 12 Patterson, Ruby
- Folder 13 Pauley, Edwin W.

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## UCRL, VARIOUS DONORS

## Carton 46 cont.

Folder 14 American Cyanamid Company  
Folder 15 Chemical Foundation  
Folder 16 James Coffin Childs  
Folder 17 Columbia Foundation  
Folder 18 Donald Cooksey  
Folder 19 International Cancer Research Foundation  
Folder 20 William R. Kenan Jr.  
Folder 21 Josiah Macy Foundation  
Folder 22 Markle Foundation  
Folder 23 Miscellaneous  
Folder 24 National Research Council  
Folder 25 Research Corporation  
Folder 26 Rockefeller Foundation  
Folder 27 University of California Accounting

## LAWRENCE FUND RECORDS

Folder 28 Eastman Kodak Company  
Folder 29 Florence Hellman Ehrman  
Folder 30 Frederick L. Ehrman  
Folder 31 The Ford Foundation  
Folder 32 Alfred Lee Loomis  
Folder 33 Standard Oil Company  
Folder 34 University of California Accounting Department  
Folder 35 Petty Cash Fund

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## Carton 46 cont.

- Folder 36 Monthly Summaries October 1945-December 1950
- Folder 37 Monthly Summaries January 1951-April 1957
- Folder 38 Entertainment
- Folder 39 Laboratory Equipment
- Folder 40 Reprint Binding
- Folder 41 Automobiles
- Folder 42 Driver Service
- Folder 43 Ira Sandefur Expense Account
- Folder 44 Cash Books

## Carton 47

- Folder 1 Cashbox Records October 1945-1949
- Folder 2 Cashbox Records 1950-51
- Folder 3 Cashbox Records 1952-54
- Folder 4 Cashbox Records 1955-58
- Folder 5 Check Records October 1945-1946
- Folder 6 Check Records 1947
- Folder 7 Check Records 1948
- Folder 8 Check Records 1949
- Folder 9 Check Records January-April 1950
- Folder 10 Check Records May-December 1950
- Folder 11 Check Records January-April 1951
- Folder 12 Check Records May-October 1951
- Folder 13 Check Records January-March 1952
- Folder 14 Check Records April-December 1952
- Folder 15 Check Records 1953
- Folder 16 Check Records 1954

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**Carton 47 cont.**

Folder 17 Check Records 1955  
 Folder 18 Check Records 1956  
 Folder 19 Check Records 1957  
 Folder 20 Check Records 1958  
 Folder 21 Fund Statements 1936-September 1945  
 Folder 22 Fund Statements October 1945-1950

**Carton 48**

Folder 1 Fund Statements 1951-58  
 Folder 2 Monthly Summaries January 1943-September 1945  
 Folder 3 Fund Receipts 1932-36  
 Folder 4 Fund Receipts 1937  
 Folder 5 Fund Receipts 1938  
 Folder 6 Fund Receipts 1939-40  
 Folder 7 Fund Receipts 1941  
 Folder 8 Fund Receipts 1942  
 Folder 9 Fund Receipts 1943  
 Folder 10 Fund Receipts 1944  
 Folder 11 Fund Receipts 1945  
 Folder 12 Miscellaneous Records

**Box I**

Cancelled Checks 1937-50

**Box II**

Cancelled Checks 1951-58

**Oversize**

University of California Accounting Office; Monthly Ledger  
 Sheets (two books)

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